E. P. Streek

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-64 Relating to Certification of New Motor Vehicles

ISUZU MOTORS LIMITED

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the a authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1988 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family		isplacement s (Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JSZ090V5FFAX	1.5		Air Injection - Valve Exhaust Gas Recirculation Warm-Up Three-Way Catalyst Three-Way Catalyst Oxygen Sensor (Electronic Port Fuel Injection) (Turbocharger)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

.. .

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
<u>Grams per Mile</u>	<u>Grams per Mile</u>	<u>Grams per mile</u>	
0.41	7.0	0.7	

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
<u>Grams per Mile</u>	Grams per Mile	<u>Grams per Mile</u>	
0.15	1.4	0.2	

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

ISUZU MOTORS LIMITED

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ... " (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 <u>et seq.</u>) and with Health and Safety Code Section 43204.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 20

day of July, 1987. 11/1

K. D. Drachand, Chief Mobile Source Division

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E.O. # A-20-64

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1988 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Evaporative Famil	lyCAN	- F	Engine		L4	
			- cng ine	туре	.4	
			Liters	(CID)	1.5 (90)	
ABBREVIATIONS						
Ignition System		<u>Exhaust Em</u>	issions C	ontrol Sys	stem	Special Feature
CA-Centrifugal A ECU-Electronic C EI-Electronic Ig ESAC-Electronic Control VA-Vacuum Advanc VR-Vacuum Retard CFI, CL, DID, DI nV-nVenturi Cart	ontrol Unit nition Spark Advance e IP, EFI, MFI	AIP-Air In AIV-Air In DBC-Dual B EGR-Exhaus EIC-Electr EM-Engine OC-Oxidati OS-Oxygen HOS-Heated SPL-Smoke Throttle TOC-Trap TWC-Three WUOC-Warm	jection-V ed Cataly t Gas Rec onic Inje Modificat on Cataly Sensor Oxygen S Puff Limi Delay Oxidizer, Oxidizer, Way Cata Up-Oxida	alve st irculation ction Con ion st ensor ter or Continual Periodica yst ion Catal	trol	CCV-Combustion Chamber Va CFI-Central Fue Injection Throttle B Injection DID-Diesel Injection- Direct DIP-Diesel Injection Prechamber EFI-Electronic Fuel Injection IC-Intercooler or Afterco MFI-Mechanical Fuel Injection OBD-On-Board
						Diagnosti TC-Turbocharge
			:			
VEHICLE MODELS:			:			
<u>VEHICLE MODELS:</u> Isuzu I-MARK		TIE-L1, TIE-L TIE-L2, TIE-L	.1H: 4 Do .2H: 2 Do	oor Notchb oor Hatchb	ack ack	

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	1988 AIR RESOURCES B	OARD SUPPLEMENTAL DATA	E.O. # <u>A-20-64</u> SHEET	
Passenger Cars _	X Light-Duty Trucks	_ Medium-Duty Vehicles	Page 2 Gas X Diesel	_
	ISUZU MOTORS LIMITED		JSZ090V5FFAX	
Liter (CID)	1.5 (90)	Eng. Type	L4	_
	Sys. (Special Features)	AIV, EGR, OS,	TWC (EFI, TC)	_

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(Dyno Hp)			Distributor	ECM		
TIE-L1 TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) TIE-L1H TIE-L2H (Dyno HP: 6.6)	M-5	2,500	8011036740	8160743990	8944629980	Under Floor Converter 825127472 Exh Manifold Converter 8944237600
	•					
	TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) TIE-L1H TIE-L2H (Dyno HP: 6.6)	TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) -TIE-L1H TIE-L2H (Dyno HP: 6.6)	TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) -TIE-L1H TIE-L2H (Dyno HP: 6.5)	TIE-L2 M-5 2,500 8011036740 TIE-L1H TIE-L2H (Dyno HP: 6.6) 4 4 (Dyno HP: 6.6) 4 4 4 4 TIE-L2H 5 5 5 5 5 8011036740 4 4 4 4 4 4 TIE-L1H TIE-L2H 5 <td< td=""><td>TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) M-5 2,500 8011036740 8160743990 TIE-L1H TIE-L2H (Dyno HP: 6.6) M-5 2,500 8011036740 8160743990</td><td>TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) M-5 2,500 8011036740 8160743990 8944629980 TIE-L1H TIE-L2H TIE-L1H TIE-L2H TI</td></td<>	TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) M-5 2,500 8011036740 8160743990 TIE-L1H TIE-L2H (Dyno HP: 6.6) M-5 2,500 8011036740 8160743990	TIE-L2 TCE-L1 TCE-L2 (Dyno Hp: 7.7) M-5 2,500 8011036740 8160743990 8944629980 TIE-L1H TIE-L2H TIE-L1H TIE-L2H TI